

## ImperviTRAN™ PRODUCT SELECTION GUIDE

**GENERAL SPECIFICATIONS: ALL ARE 50/60 Hz RATED**

### BUILDING STYLE:

Series 2 IMPERVITRA

IMPERVITRAN (non-Series 2) highlighted in blue

Blue not Series 2

APPROVALS: UL/cUL File #E46323

APPROVALS: UL File #E46323/CSA File #LR27533

TERMINAL TIGHTENING TORQUE (ALL IMPERVITRAN STYLES): ≤30A: 20 lb/in; >30A: 30 lb/in

TERMINAL NUMBER: Column "T" denotes terminal count needed to select terminal cover kits

**Sold as 10-Paks.** TPTC-2001 fits all 4-terminal designs; TPTC-2002 fits all 6-terminal designs.

Pertinent agency and  
mechanical data

### TEMPERATURE CLASS:

Two letter suffix denotes Temp Class 105°C

Three letter suffix ending in "F" denotes Temp Class 130°C

Three letter suffix ending in "H" denotes Temp Class 180°C

### PART NUMBER DESCRIPTORS:

#### Alpha-numeric

##### B150BTZ13JKF

**B** = Impervitran construction

**150** = VA rating (Kva = \*K\*ie: 3K0)

**BT** = Primary voltage rating

**Z** = Triple rated ±5% around nominal voltage

**13** = Secondary voltage

**JK** = installed accessories

**F** = 130°C construction

#### Serialized

##### B150-2004-GAF

**B** = Impervitran construction

**150** = VA rating

**2004** = Assigned by engineering

**GA** = GlobalTran EN61558-2-2

**F** = 130°C construction

### COMMON PRIMARY VOLTAGES

|         |         |         |
|---------|---------|---------|
| 120 = L | 277 = Q | 460 = T |
| 208 = M | 380 = R | 480 = U |
| 230 = B | 400 = F | 575 = W |
| 240 = P | 415 = D | ±5% = Z |

### COMMON SECONDARY VOLTAGES

|          |                |
|----------|----------------|
| 5 = 12   | 19 = 240       |
| 7 = 24   | 34 = 110 X 220 |
| 13 = 115 | 37 = 95, 115   |
| 15 = 120 |                |

### SUFFIX DESCRIPTION:

"J" in suffix denotes jumpers necessary for operation

"K" in suffix denotes installed secondary fuse clips for 13/32 x 1-1/2 fuse

"-1" in suffix denotes installed secondary fuse clips (serialized P/Ns)

"-3" in suffix denotes no fuse clips on unit (serialized P/Ns)

"R" in suffix denotes installed Class "CC" primary fuse block

"-8 or -5" in suffix denotes installed Class "CC" primary fuse block (serialized P/Ns)

"X" in suffix is a place holder. The letter it replaces is not available on that unit

### EXAMPLE:

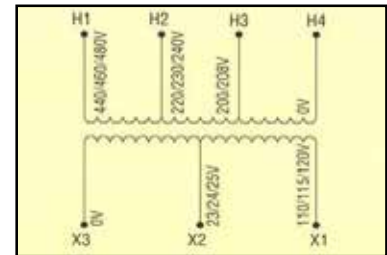
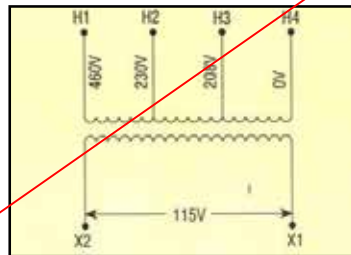
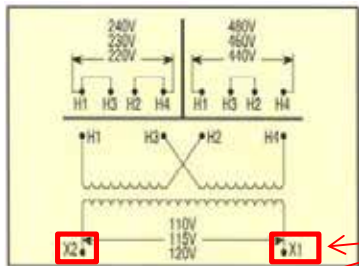
B100BTZ13JK >>> B100BTZ13RB

B150MBT13XKF >>> B150MBT13RKF

Number of terminals

Transformer Full Load Amps

Terminal designators



Primary: 220 x 440, 230 x 460,  
240 x 480  
Secondary: 110/115/120

Primary: 208, 230, 460  
Secondary: 115

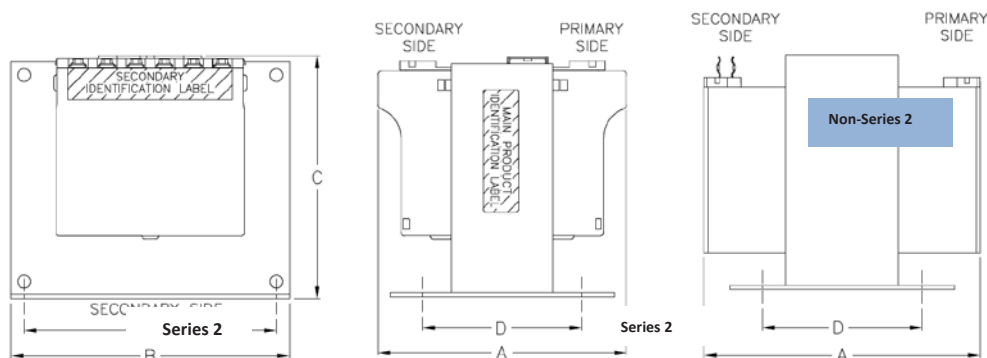
Primary: 208/230/460  
Secondary: 24/115

| T | F.L.A. | VA   | CATALOG NUMBER |
|---|--------|------|----------------|
| 4 | 0.43   | 50   | B050BTZ13JK    |
| 4 | 0.65   | 75   | B075BTZ13JK    |
| 4 | 0.87   | 100  | B100BTZ13JK    |
| 4 | 1.30   | 150  | B150BTZ13JKF   |
| 4 | 1.74   | 200  | B200BTZ13JKF   |
| 4 | 2.17   | 250  | B250BTZ13JKF   |
| 4 | 2.61   | 300  | B300BTZ13JKF   |
| 4 | 3.04   | 350  | B350BTZ13JKF   |
| 6 | 4.35   | 500  | B500BTZ13JKF   |
| 6 | 6.52   | 750  | B750BTZ13JKF   |
| 6 | 8.70   | 1000 | B1K0BTZ13JKF   |
| 6 | 13.04  | 1500 | B1K5BTZ13JKF   |
| 6 | 17.39  | 2000 | B2K0BTZ13JKH   |
| 6 | 26.09  | 3000 | B3K0BTZ13JXH   |
| 6 | 43.48  | 5000 | B5K0BTZ13JXH   |

| T | F.L.A. | VA   | CATALOG NUMBER |
|---|--------|------|----------------|
| 4 | 0.43   | 50   | B050MBT13XK    |
| 4 | 0.65   | 75   | B075MBT13XK    |
| 4 | 0.87   | 100  | B100MBT13XK    |
| 4 | 1.30   | 150  | B150MBT13XKF   |
| 4 | 1.74   | 200  | B200MBT13XKF   |
| 4 | 2.17   | 250  | B250MBT13XKF   |
| 4 | 2.61   | 300  | B300MBT13XKF   |
| 4 | 3.04   | 350  | B350MBT13XKF   |
| 6 | 4.35   | 500  | B500MBT13XKF   |
| 6 | 6.52   | 750  | B750MBT13XKF   |
| 6 | 8.70   | 1000 | B1K0MBT13XKF   |
| 6 | 13.04  | 1500 | B1K5MBT13XKF   |
| 6 | 17.39  | 2000 | B2K0MBT13XKH   |
| 6 | 26.09  | 3000 | B3K0MBT13XXH   |
| 6 | 43.48  | 5000 | B5K0MBT13XXH   |

| T | F.L.A.     | VA   | CATALOG NUMBER |
|---|------------|------|----------------|
| 4 | 2.08/0.44  | 50   | B050-2000-1    |
| 4 | 3.13/0.65  | 75   | B075-2001-1    |
| 4 | 4.17/0.87  | 100  | B100-2002-1    |
| 4 | 6.25/1.30  | 150  | B150-2003-1F   |
| 4 | 8.33/1.74  | 200  | B200-2004-1F   |
| 4 | 10.42/2.17 | 250  | B250-2005-1F   |
| 6 | 12.50/2.61 | 300  | B300-2006-1F   |
| 6 | 14.58/3.04 | 350  | B350-2007-1F   |
| 6 | 20.84/4.35 | 500  | B500-2008-1F   |
| 6 | 31.30/6.50 | 750  | B750-2009-1F   |
| 6 | 41.70/8.70 | 1000 | B1K0-2010-1F   |

Blue is not Series 2



**KVA SIZES:** Can be either Series 2 or Non-Series 2

**BTZ13 Pri: 230/460 Sec: 115 No secondary fuse clip > 2Kva** Yellow highlight equals same VA footprint

| VA           |       |         |      |         | INC'L FUSE CLIP |         |      |         |      |         | W      |
|--------------|-------|---------|------|---------|-----------------|---------|------|---------|------|---------|--------|
| DIMENSIONS   | INCH  | A    MM | INCH | B    MM | INCH            | C    MM | INCH | D    MM | INCH | E    MM | LBS    |
| B1K0BTZ13JKF | 6.11  | 155     | 6.75 | 172     | 6.30            | 160     | 3.91 | 99      | 6.13 | 156     | 30.50  |
| B1K5BTZ13JKF | 8.11  | 206     | 6.75 | 172     | 6.32            | 161     | 6.13 | 156     | 6.13 | 156     | 50.10  |
| B2K0BTZ13JKH | 7.75  | 197     | 6.75 | 172     | 6.28            | 160     | 6.13 | 156     | 6.13 | 156     | 46.10  |
| B3K0BTZ13JXH | 8.00  | 203     | 9.00 | 229     | 7.50            | 191     | 5.25 | 133     | 7.50 | 191     | 68.80  |
| B5K0BTZ13JXH | 10.00 | 254     | 9.00 | 229     | 7.50            | 191     | 7.19 | 183     | 7.50 | 191     | 109.40 |

**MBT13 Pri: 208, 230, 460 Sec: 115 No secondary fuse clip > 2Kva**

| VA           |       |         |      |         | INC'L FUSE CLIP |         |      |         |      |         | W      |
|--------------|-------|---------|------|---------|-----------------|---------|------|---------|------|---------|--------|
| DIMENSIONS   | INCH  | A    MM | INCH | B    MM | INCH            | C    MM | INCH | D    MM | INCH | E    MM | LBS    |
| B1K0MBT13XKF | 7.45  | 189     | 6.38 | 162     | 5.42            | 138     | 5.06 | 129     | 5.31 | 135     | 37.00  |
| B1K5MBT13XKF | 8.50  | 216     | 6.75 | 172     | 5.75            | 146     | 6.09 | 155     | 6.13 | 156     | 53.90  |
| B2K0MBT13XKH | 8.13  | 207     | 6.75 | 172     | 6.28            | 160     | 5.25 | 133     | 6.13 | 156     | 51.60  |
| B3K0MBT13XXH | 8.50  | 216     | 9.00 | 229     | 7.50            | 191     | 5.75 | 146     | 7.50 | 191     | 77.10  |
| B5K0MBT13XXH | 10.31 | 262     | 9.00 | 229     | 7.50            | 191     | 7.56 | 192     | 7.50 | 191     | 114.60 |

**BTWZ37 Pri: 230/460/575 Sec: 95/115 No secondary fuse clip > 2Kva**

| VA            |       |   |     |      | INC'L FUSE CLIP |     |      |   |     |      | W |     |      |   |     |        |
|---------------|-------|---|-----|------|-----------------|-----|------|---|-----|------|---|-----|------|---|-----|--------|
| DIMENSIONS    | INCH  | A | MM  | INCH | B               | MM  | INCH | C | MM  | INCH | D | MM  | INCH | E | MM  | LBS    |
| B1K0BTWZ37XKH | 7.00  |   | 178 | 6.38 |                 | 162 | 5.42 |   | 138 | 5.06 |   | 129 | 5.31 |   | 135 | 31.80  |
| B1K5BTWZ37XKH | 7.45  |   | 189 | 6.75 |                 | 172 | 6.29 |   | 160 | 5.25 |   | 133 | 6.13 |   | 156 | 44.20  |
| B2K0BTWZ37XKH | 7.56  |   | 192 | 9.00 |                 | 229 | 7.80 |   | 198 | 4.81 |   | 122 | 7.50 |   | 191 | 57.70  |
| B3K0BTWZ37XXH | 8.69  |   | 221 | 9.00 |                 | 229 | 7.50 |   | 191 | 5.94 |   | 151 | 7.50 |   | 191 | 83.60  |
| B5K0BTWZ37XXH | 11.00 |   | 279 | 9.00 |                 | 229 | 7.50 |   | 191 | 8.19 |   | 208 | 7.50 |   | 191 | 129.40 |

**PU1519 Pri: 240 x 480 Sec: 120 x 240**

| VA           |       |   |     |      | NO FUSE CLIP |     |      |   |     |      | W |     |      |    |     |        |
|--------------|-------|---|-----|------|--------------|-----|------|---|-----|------|---|-----|------|----|-----|--------|
| DIMENSIONS   | INCH  | A | MM  | INCH | B            | MM  | INCH | C | MM  | INCH | D | MM  | E    | MM | LBS |        |
| B1K0-0500-3F | 7.00  |   | 178 | 5.25 |              | 133 | 4.48 |   | 114 | 5.38 |   | 137 | 4.38 |    | 111 | 28.8   |
| B1K5-0501-3H | 7.00  |   | 178 | 6.75 |              | 172 | 5.75 |   | 146 | 4.25 |   | 108 | 6.13 |    | 156 | 37.00  |
| B2K0-0502-3H | 7.75  |   | 197 | 6.75 |              | 172 | 5.73 |   | 146 | 4.97 |   | 126 | 6.13 |    | 156 | 46.00  |
| B3K0-0503-3H | 8.00  |   | 203 | 9.00 |              | 229 | 7.62 |   | 194 | 5.25 |   | 133 | 7.50 |    | 191 | 80.00  |
| B5K0-0504-3H | 10.00 |   | 254 | 9.00 |              | 229 | 7.50 |   | 191 | 7.19 |   | 183 | 7.50 |    | 191 | 114.60 |

**Special Voltages – Pri: 240, 347, 380 Sec: 120 x 240**

| VA           |       |   |     |      | NO FUSE CLIP |     |      |   |     |      | W |     |      |   |     |        |
|--------------|-------|---|-----|------|--------------|-----|------|---|-----|------|---|-----|------|---|-----|--------|
| DIMENSIONS   | INCH  | A | MM  | INCH | B            | MM  | INCH | C | MM  | INCH | D | MM  | INCH | E | MM  | LBS    |
| B1K0-0321-3F | 7.19  |   | 183 | 6.38 |              | 162 | 5.42 |   | 138 | 5.06 |   | 129 | 5.31 |   | 135 | 29.00  |
| B1K5-0322-3H | 8.13  |   | 207 | 6.38 |              | 162 | 5.44 |   | 138 | 5.06 |   | 129 | 5.31 |   | 135 | 33.30  |
| B2K0-0323-3H | 8.88  |   | 226 | 6.75 |              | 172 | 5.79 |   | 147 | 6.13 |   | 156 | 6.13 |   | 156 | 61.10  |
| B3K0-0324-3H | 8.50  |   | 216 | 9.00 |              | 229 | 7.62 |   | 194 | 5.69 |   | 146 | 7.50 |   | 191 | 80.00  |
| B5K0-0325-3H | 10.31 |   | 262 | 9.00 |              | 229 | 7.50 |   | 191 | 7.56 |   | 192 | 7.50 |   | 191 | 114.60 |